

Recent IBM patents

The following patents were recently issued by the countries in which the inventions were made. For U.S. patents, titles and names supplied to us by the U.S. Patent Office are reproduced exactly as they appear on the original published patent.

Federal Republic of Germany

3,473,958,008 G. Trippel, U. Bandara,
H. Hinkel, and W. Steiner
3,473,891,608 W. D. Bissinger

Magnetic Disk and Method of Making Same

Process for Automatically Regenerating Copper Chloride Etch Solution

Japan

1,457,553 H. Takahashi

OCR for Handwritten Kanji Characters

Sweden

191,173 M. Y. Al-Jaroudi

Vacuum Impregnation of Sintered Materials with Dry Lubricant

United Kingdom

145,817 A. A. Impey, C. J. Easton,
C. V. Powell, and J. Simmons
154,062 R. D. Commander, G. Normington,
and R. Speed

A Data Display System

Power Switching Circuit

United States

4,701,998 D. C. Ahlgren, R. E. Bendoragel,
R. C. Lange, and M. Revitz

Method for Fabricating a Bipolar Transistor

4,702,792 M.-F. Chow, W. L. Guthrie,
and F. B. Kaufman

Method of Forming Fine Conductive Lines, Patterns and Connectors

4,703,260 J. G. Beha, R. W. Dreyfus,
J. A. Kash, and G. W. Rubloff

Full Chip Integrated Circuit Tester

4,703,321 B. A. Barker and I. H. Hernandez

Method for Editing a Graphic Object in an Interactive Draw Graphic System

4,703,323 D. Troupes and R. W. Alexander

Method and Apparatus for Displaying Enhanced Dot Matrix Characters

4,703,364 S. Asada and H. Yanagisawa

Processor Synchronous Image Scanner Controlling Method

4,703,409 J. H. Spreen

Coupled Power Supply Inductors for Reduced Ripple Current

4,703,420 J. W. Irwin

System for Arbitrating Use of I/O Bus by Co-Processor and Higher Priority I/O Units in which Co-Processor Automatically Request Bus Access in Anticipation of Need

4,703,435 J. A. Darringer and W. H. Joyner, Jr.

Logic Synthesizer

4,703,485 A. M. Patel

Method and Apparatus for Computing and Implementing Error Detection Check Bytes

4,703,689 J. E. Wallace and H. C. Wang

Two Lever Print Actuator with Aligned Pivots and Energy Transfer Surfaces

4,704,301 H. J. Bauer and M. B. Froehlich

Method of Making Low Resistance Contacts

4,704,304 A. Amendola, A. H. Kumar,
and T. R. Vance

Method for Repair of Opens in Thin Film Lines on a Substrate

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4,704,368	G. R. Goth and S. D. Malaviya	Method of Making Trench-Incorporated Monolithic Semiconductor Capacitor and High Density Dynamic Memory Cells Including the Capacitor
4,757,463	R. V. Ballou, J. A. Boscove, R. A. Kraus, H. L. Kurtz, P. Langer, and K. M. Nicolson	Fault Isolation for Vehicle Using a Multifunction Test Probe
4,757,534	S. M. Matyas and J. Oseas	Code Protection Using Cryptography
4,757,549	B. H. Machart and J. S. Wang	Freehand Drawing Containing Invisible Lines
4,757,552	H. Asano, E. Kanzaki, and Y. Shimizu	Method for Processing Binary Image Data
4,758,058	R. T. Cato, L. D. Dickson, and R. S. Fortenberry	Holographic Disk Scanner Having Special Position-Indicating Holograms
4,758,103	T. V. Angst, M. E. Bunke, P. K. Do, N. J. Krull, D. Troupes, and C. W. Wyke	Method and Apparatus for Quieting the Operation of a Dot Matrix Printer
4,758,306	J. E. Cronin and C. W. Kaanta	Stud Formation Method Optimizing Insulator Gap-Fill and Metal Hole-Fill
4,758,528	G. R. Goth, I. E. Magdo, and S. D. Malaviya	Self-Aligned Metal Process for Integrated Circuit Metallization
4,758,531	K. D. Beyer, L. L. Hsu, D. J. Schepis, and V. J. Silvestri	Method of Making Defect Free Silicon Islands Using SEG
4,758,941	B. C. Felton and W. B. McCoy	MOSFET Fullbridge Switching Regulator Having Transformer Coupled MOSFET Drive Circuit
4,758,965	B. C. Liang and T. N. Tsakiris	Polygon Fill Processor
4,759,019	P. C. Bentley and J. W. Kemp	Programmable Fault Injection Tool
4,759,068	L. R. Bahl, P. V. DeSouza, R. L. Mercer, and M. A. Picheny	Constructing Markov Models of Words from Multiple Utterances
4,759,403	E. B. Flint and K. R. Grebe	Hydraulic Manifold for Water Cooling of Multi-Chip Electric Modules
4,759,647	E. F. Helinski and J. L. Zable	Dual Pitch Impact Printer
4,759,821	C. M. Knoedler and D. C. LaTulipe, Jr.	Process for Preparing a Vertically Differentiated Transistor Device
4,759,894	R. A. McCorkle	Method and Apparatus for Producing an Ultra-High Controlled Transient Temperature with an Electrical Discharge
4,760,013	N. P. Hacker and C. E. Larson	Sulfonium Salt Photoinitiators
4,760,289	E. B. Eichelberger, S. E. Bello, R. O. Bergenn, W. M. Chu, J. A. Ludwig, and R. F. Rizzolo	Two-Level Differential Cascode Current Switch Masterslice
4,760,386	A. W. Heath and R. K. Sheppard	Automatic Hiding and Revealing of a Pointer During Keyboard Activity
4,760,478	G. S. Pal and C. G. Snyder	Visco-Elastically Damped Magnetic Head Suspension Assembly
4,760,515	C. A. Malmquist and J. D. Wilson	Arbitration Apparatus for Determining Priority of Access to a Shared Bus on a Rotating Priority Basis
4,760,548	D. C. Baker and A. A. Kauffman, Jr.	Method and Apparatus for Producing a Curve Image
4,760,553	J. F. Buckley, G. Q. Kenney, R. M. Morrison, M. J. Stember, and E. J. Wendell	Terminal System Configuration Tracing Method and Apparatus
4,760,565	V. B. Jipson and D. Rugar	High Speed Track Access for Optical Disks Using Acousto-Optic Deflector
4,760,573	J. L. J. Calvignac, J. M. C. Feraud, and J.-M. L. Munier	Multiplex Interface for a Communication Controller
4,761,085	T. V. Angst and D. Troupes	Printer with Enhanced Bidirectional Logic Seeking for Increased Through-put
4,761,332	K. L. Elias, S. R. Martin, and W. J. Slattery	Planarized Ceramic Substrates
4,761,563	J. M. Ross and G. K. Woodworth	Asynchronous Multiphase Switching Gear
4,761,646	M. Choquet, J. B. Staton III, and K. R. Swartz	Method and System for Addressing and Controlling a Network of Modems
4,761,699	N. G. Ainslie, D. W. Brede, A. D. Erpelding, and S. Pattanaik	Slider-Suspension Assembly and Method for Attaching a Slider to a Suspension in a Data Recording Disk File
4,761,737	K. E. Duvall, A. D. Hooten, J. C. O'Quin III and T. A. Smith	Method to Automatically Increase the Segment Size of UNIX Files in a Page Segmented Virtual Memory Data Processing System
4,761,781	J. Calvignac and P. Secondo	Adaptative Packet/Circuit Switched Transportation Method and System
4,770,974	H. Hiraoka	Micro lithographic Resist Containing Poly(1,1-Dialkylsilazane)
4,771,890	R. M. Hofland and P. D. Smith	Disk Retainer and Packaging System for Optical Disks
4,772,143	J. A. Craft and J. J. Molloy	Reloadable Ribbon Cartridge
4,772,206	R. H. Kerr and R. M. Mesnard	Multi-Mode Teaching Simulator
4,772,346	H. R. Anderson, Jr., C. J. Araps, R. S. Divakaruni, D. P. Kirby, R. W. Nufer, H. S. Sachdev, K. G. Sachdev, D. Suryanarayana, and S. M. Zalar	Method of Bonding Inorganic Particulate Material
4,772,539	S. J. Gillespie	High Resolution E-Beam Lithographic Technique
4,772,763	R. L. Garwin and J. L. Levine	Data Processing Information Input Using Optically Sensed Stylus Features
4,772,931	D. L. Rogers	Interdigitated Schottky Barrier Photodetector